

Title (en)  
Method for securing a DVB-S2 transmission

Title (de)  
Verfahren zur Absicherung einer DVB-S2-Übertragung

Title (fr)  
Procédé de sécurisation d'une transmission DVB-S2

Publication  
**EP 2890135 A1 20150701 (FR)**

Application  
**EP 14200499 A 20141229**

Priority  
FR 1303116 A 20131231

Abstract (en)  
[origin: US2015189334A1] A method for enciphering a DVB-S2 frame or super-frame, including at least a first type of frame modulated with a first modulation M1 and a second type of frame modulated with a second modulation M2, comprises at least the following steps: inserting into the DVB-S2 super-frame a number of dummy frames "n" of DVB-S2 structure of length n in order to obtain a structure ST of the same defined duration T, for several given configurations, the size of the dummy frame "n" is defined in the field 29 of the code word of the PLS of a DVB-S2 frame, a dummy frame "n" being composed of a PLHeader and of n-1 slots of 90 complex symbols; and applying an enciphering algorithm to the super-frame thus obtained.

Abstract (fr)  
L'invention concerne un procédé de chiffrement d'une trame ou super trame DVB-S2 comportant au moins un premier type de trame modulée avec une première modulation M 1 et un deuxième type de trame modulée avec une deuxième modulation M 2 , caractérisé en ce qu'il comporte au moins les étapes suivantes : #c insérer au sein de la super trame DVB-S2, un nombre de dummy trames « n » de structure DVB-S2 de longueur n afin d'obtenir une structure ST de même durée T définie, pour plusieurs configurations données, la taille de la dummy trame « n » est définie dans le champ 29 du mot de code du PLS d'une trame DVB-S2, une dummy trame « n » étant composée d'un PLHeader et de n-1 slots de 90 symboles complexes, #c appliquer un algorithme de chiffrement sur la super trame ainsi obtenue.

IPC 8 full level  
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CPC (source: EP US)  
**H04B 7/18543** (2013.01 - EP); **H04H 20/74** (2013.01 - EP US); **H04H 60/23** (2013.01 - EP US); **H04N 21/2347** (2013.01 - US); **H04N 21/2383** (2013.01 - US); **H04N 21/23895** (2013.01 - EP US); **H04N 21/26606** (2013.01 - EP US); **H04N 21/26613** (2013.01 - EP US); **H04N 21/4382** (2013.01 - EP US); **H04N 21/6143** (2013.01 - EP US); **H04N 21/6175** (2013.01 - EP US); **H04N 21/63345** (2013.01 - EP US); **H04N 21/64715** (2013.01 - US)

Citation (search report)  
• [XY] DVB ORGANIZATION: "TM-S20319\_EN302307-Part-II\_rev3-superframe-revised\_ESAIIIS.docx", DVB, DIGITAL VIDEO BROADCASTING, C/O EBU - 17A ANCIENNE ROUTE - CH-1218 GRAND SACONNEX, GENEVA - SWITZERLAND, 12 December 2013 (2013-12-12), XP017845104  
• [YA] "Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications (DVB-S2)", EUROPEAN STANDARD, EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE (ETSI), 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS ; FRANCE, vol. BROADCASTAS, no. V1.3.1, 1 March 2013 (2013-03-01), XP014156243  
• [A] DVB ORGANIZATION: "2013\_05\_21\_DVB\_VLSNR\_super-frame\_benefits\_v1.pdf", DVB, DIGITAL VIDEO BROADCASTING, C/O EBU - 17A ANCIENNE ROUTE - CH-1218 GRAND SACONNEX, GENEVA - SWITZERLAND, 21 May 2013 (2013-05-21), XP017841182

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Designated extension state (EPC)  
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